

Engineer: Chris Samios	Date: 9/10/02	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 12/12/03				
Approved: Jack Curtis	Date: 2/24/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 2/2/05	Size: A	Dwg. #: 5961-271162-APP	Rev: B3	Sheet: 1 Of 1

APPLIES TO: Ericsson-GE M-RK Portable

RADIO MODIFICATIONS: None required

RADIO PROGRAMMING: None required

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be in the MAX Volume position.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291162	(5961-271162 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281162	(5961-271162 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271162	
RF Connector Type		

DSP-1 JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

RX Level	7	-16dBm
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

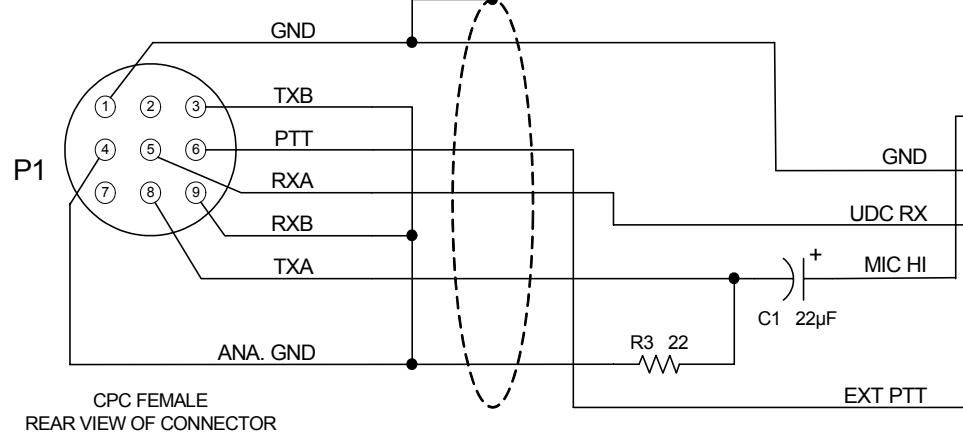
(* Indicates Default Value)

NOTES:

Rev	ECO	Date
B2		2-2-05

PURCHASED PART

USE MOLDED CABLE
(JPS P/N 5961-261003-00)

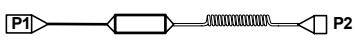


MPK DEVICE CABLE
SPEAKER MIC CABLE
OTTO P/N V3-10022
(JPS P/N 0314-000300)

P2
PURCHASED PART
CONNECTOR

PIN
VIEW

CABLE DETAIL



STRETCHED CABLE LENGTH MINIMUM 2 FEET
USED WITH:
ERICSSON-GE MRK PORTABLE

COMPONENT PCB (JPS P/N 5961-271000)

C1 JPS P/N 0321-220250
R3 JPS P/N 1820-220000
JU2
JU4
JU5
JU6

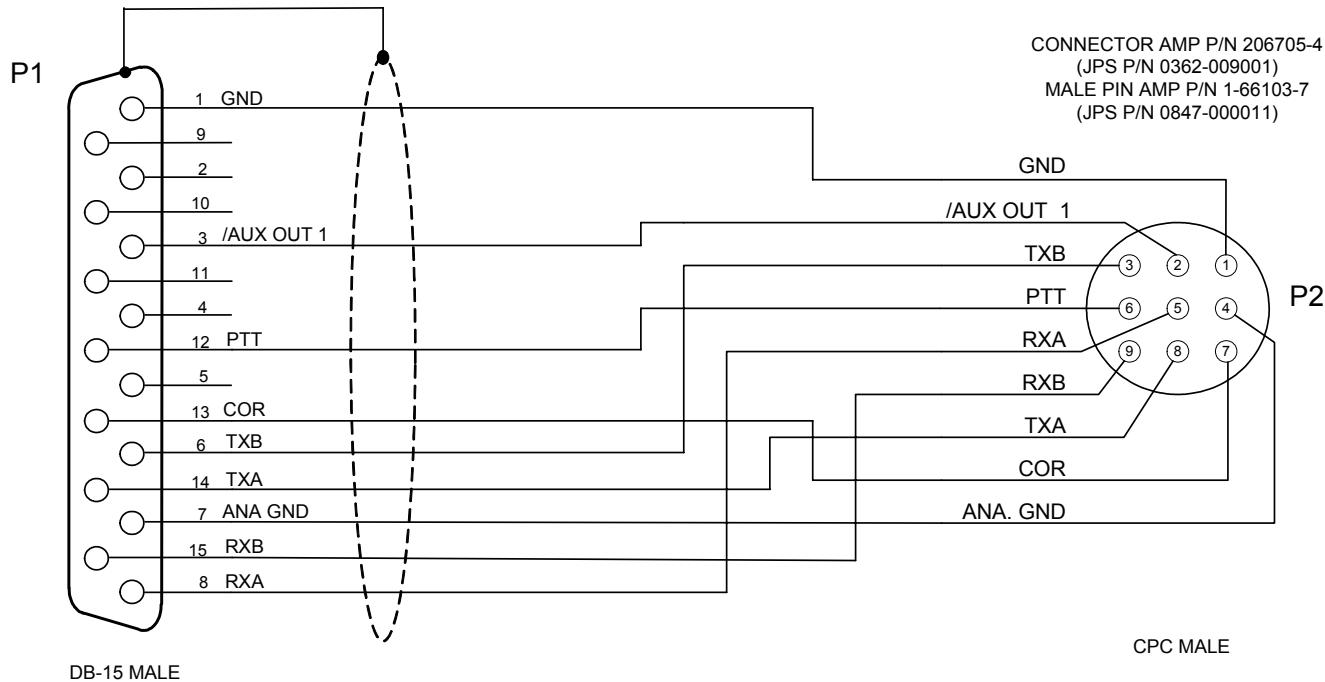
NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE
5961-271001-CBL.

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, CPC TO ERICSSON-GE MRK		
Checked By:	JAC	Size A	Document Number 5961-271162	Rev B2
		Issued Date NOVEMBER 15, 2003	Sheet <u>1</u> of <u>1</u>	

PURCHASED PART

Rev	ECO	Date
A		



NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

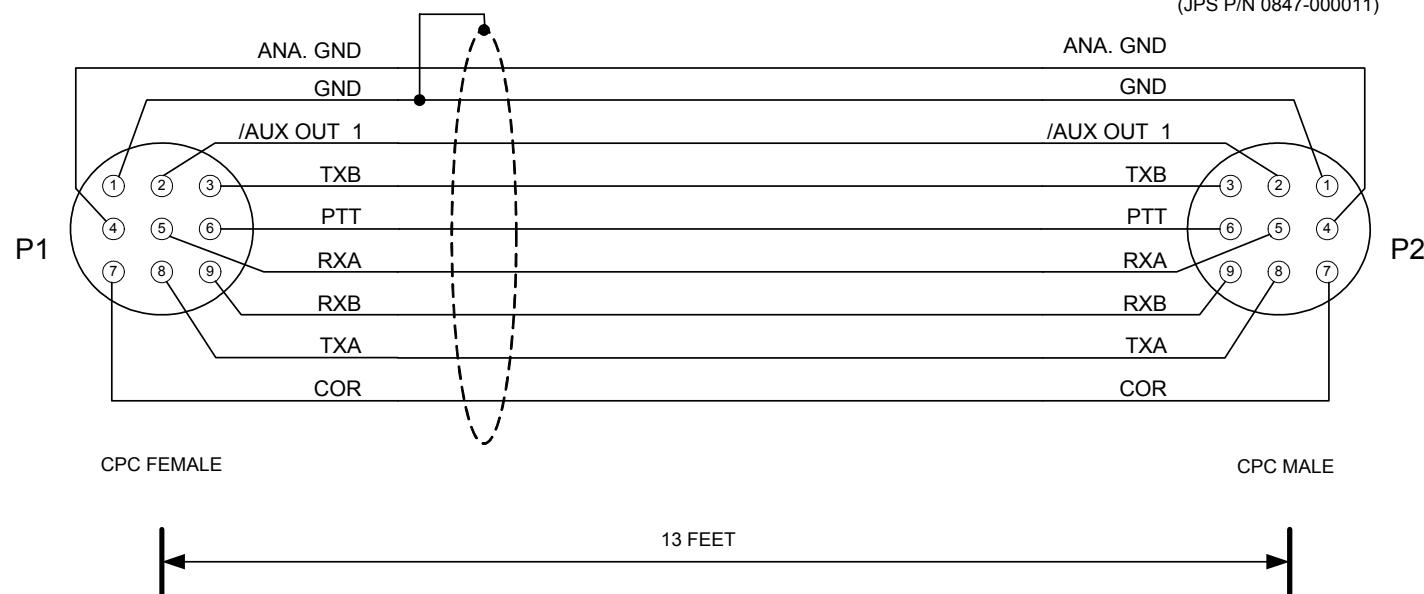
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title	CABLE, ACU-1000 RADIO EXTENSION - 13 FT	
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
	Issued Date JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
A		

PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
 2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
 3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
 4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By:	JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	JAC	Title	CABLE, ACU-T RADIO EXTENSION - 13 FT	
Checked By:	RBP	Size A	Document Number 5961-281013-00	Rev A
		Issued Date	JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>